



OTVARC Oscillator

The Oregon Tualatin Valley Amateur Radio Club Newsletter

October 1994 Issue

The Prez Sez

By Bill - N7VZF

This issue may be real late. It is mostly my fault. My fault because I have been swamped this last month. I have no idea where the time has gone. It seems just a week ago that we were having our board meeting and here it is time for our next.

Things happened this month. Not much to say but a few things that must be said. Though I still have 2 months left in my term of office, I have started my reflections. I must say that I feel good about some of the things I have accomplished. I must also feel good about the attempts that I have made to accomplish others though without as much success. There is one thing in particular that I am not proud of doing. That is one of the things that this article will address.

Early in the year, I was approached by several members of the club who brought to my attention that though the club has in the past given a scholarship to a local student, nothing had been done in the last several years. In our pursuit of our 501-C3 tax status, we, as a club need to demonstrate involvement in our community through our work, public service, emergency service and fulfillment of our club charter. Part of that charter includes the awarding of a scholarship. If you have heard me speak of my other activities outside of OTVARC, you probably know of my involvement with the Miss Oregon Scholarship Program and my believe in the need to support educational advantages for our youth. Therefore, I took on the project of re-activating the award process. I contacted the last person listed as the chairperson of the Scholarship Committee and asked for any information concerning the committee and its functioning. I was informed that the person who was listed as the chair was no longer interested as serving in that capacity but would be happy to serve on such a committee. I asked if there was a committee in place and was that there wasn't an "Active Committee". I assumed (first mistake - never assume) that meant that there was no committee. I took on the responsibility, openly, to recruit a committee without much success. Betty, our Vice President asked about it again when she received a request from a candidate. It had been discussed at several board meetings and was finally voted and accepted by the board that the board serve as the scholarship committee. We reviewed the selection criteria and solicited input for any changes. We reviewed the changes, then voted and approved the changes as presented. The next step was to review any candidate's request based on the accepted criteria and selected a recipient.

Continued in "PREZ" - Page 4

From the VP's desk

By Betty - N7REX

OCTOBER CLUB MEETING

PROGRAM NOTE:

October's club meeting will be in reverse of our usual order, with Mrs. Cynthia Wall's presentation first followed by the break and finally the business meeting. Since her novels are aimed at younger readers (however half of her fan mail comes from adults), parents may wish to bring their harmonics in to meet the author who will be available during break to sign books. Don't worry if you don't have one yet, they will be available for sale at the meeting. If all goes well, the newest book in the ARRL adventure series will also be available. Her books are also available at HRO.

ABOUT THE AUTHOR

Cynthia Wall, KA7ITT, is a local novelist who lives in the Willamette Valley and incorporates the beauty of Oregon in her books. She comes from a ham family. Her grandfather was an early pioneer of ham radio and her father was a broadcast engineer and amateur radio operator. In addition her brother Steve, W6RHM, is also a ham. Cynthia credits her mother-in-law, a silent key, with her start in writing the series which craftfully combine adventure, creative use of ham radio, and romance. She became a ham after moving to Oregon in 1974 in order to better stay in touch with her family.

Joining the ham community put her in contact with a wide variety of ham radio operators from all walks of life with various interest inside and out of the hobby. She enjoyed listening to the stories people told about their adventures in communication and recalled practicing code in her head as a child while her brother studied for his licence. Cynthia had been writing since her years at college and found the job of writing about a familiar hobby rewarding. In reading her books, the audience learns some of the technical side of ham radio and some of its power as a communication tool. She does extensive research to be sure that her fictional stories are plausible and realistic while being entertaining.

Mrs. Wall will be sharing some stories about the research process for her latest book at the meeting. She plans to come in time for dinner, so maybe you could tell her about your "Ham Adventure" and sometime in the future read shades of your story in future episode in the lives of her key characters, Kim and Marc.

Continued in "Meeting" - Page 3

THE "HAMMY" SIDE OF CYCLE OREGON

Cycle Oregon is an annual event to promote Oregon tourism. Participants came from 35 of the 50 states and 4 foreign countries. Approximately 2,000 cyclists rode the 471.6 mile course. This year's event went from Eugene to Oakland to Myrtle Creek to Glendale to Butte Falls to Merlin to Gold Beach and ended in Brookings.

The event also promotes ham radio. At the closing ceremonies, the group receiving the loudest applause was the 13 dedicated amateur radio operators who worked the event. The participants got to see the power of ham radio communication when it took only 2-3 minutes to get an ambulance on site when needed. There were 12 runs to the hospital with 3 of them being code three. Of the 13 hams working the event 9 were OTVARC members: KZ7T, KB7ADH, W7FBP, K7YBZ, N7EPE, WB7UNU, KA5OLH, N7LMK, and W7JWG.

The Oregonian did a good job reporting the facts, just the facts. Like it took 3 TNT tractor trailer trucks just to move the gear from overnight to overnight, 100 porta-potties were moved every day, 4 Buck Ambulances accompanied the ride, 3 motorcycle state patrolmen worked the event, 21 massage therapists were kept busy every evening rubbing out sore muscles, each overnight hosted 1,500-1,800 tents and over 10,000 gallons of water were consumed each day. The Oregonian goes all out for this event. They even print a Cycle Oregonian daily paper.

Now for more than just the facts. This reporter has learned that one of our own hams placed the following add in the Cycle Oregonian:

Middle-Aged male looking for SWF who likes high mountain adventure with frequency. Enjoy prolonged tight positions. Must have large jugs...of diet Coke. Send Photo of jugs.
Ringo Ranger

To which the following reply appeared:

Ringo Ranger. SWF seeking to oscillate with Ringo Ranger. Can maintain any position with frequency. Dual band relationship possible.
Ann Ten na

KZ7T logged over 5,700 miles on his pickup preparing for this event. Could it be that he was looking for just the right mountaintop to set up his roving ham shack. The medics, overcome with compassion for Ringo Ranger, hooked up an IV with a diet coke drip and presented it at an evening meeting. K7YBZ is so dedicated that he takes time off work

(most amateurs do), came all the way from Washington to help, and even volunteered to get the police mannikin to stop doing radar at the bridge in Gold Beach to come out on the course and help. Fortunately for Larry, the "dummy incident" was near the end of the ride, so he didn't have to endure the jokes ALL week.

What's this we hear about KB7ADH and Adrienne Van Bommel, event coordinator horsing around? Wasn't there enough excitement without having to lasso a stray spooked horse (who was travelling down the road WITH the cyclists). Adrienne was able to calm the frightened animal enough to have it eat grass from her hand while Jim put the make-shift lasso around its neck. They took the horse to the nearest neighbor who began the search for its owner.

This must have been the year for unusual animals mingling with the cyclists. The medics were surprised to find an injured bear hunting dog trotting along with the cyclists. The doctor on the ride patched it up and it was transported to Randy's location where he fed it half a plate-sized doughnut. After seeing how it wolfed that down, Randy gave it all that was left of his lunch meat from his cooler. For the rest of these stories or any other amusing incidents that happened on the event, contact any of the participating club members.

Adrienne Van Bommel sends thanks to OTVARC for their continued support of this event. Special thanks go to Randy KZ7T for being net control and Jim KB7ADH for being the director's shadow for the entire week. Adrienne said, "These guys (and gals) are the best. They are the stars of the ride. This event couldn't happen without them. I love them all!" "Thanks, thanks, thanks," she added, "see you all next year."

BORSCH ELECTRONICS

Communications Servicing

9935 S.W Johnson St
Tigard, OR. 97223

Joe Borsch W7PNS

(503) 684-5201

When a young lady asked a doctor if the scar would show he assured her that this would be entirely up to her.

When you can't BREATHE.... NOTHING ELSE MATTERS!

Brian Harney, events director for the American Lung Association Oregon Chapter expresses his appreciation for the OTVARC members and other amateurs who helped on their two recent bicycle events. A special thanks goes to Chris Black, N7MWL who was net control and "Head Ham" for both tours.

"Amateur Radio Operators are an important part of our volunteer group", Mr Harney stated emphatically. "They provide vital communication along the course and help provide for the safety and welfare of our riders."

The Reach the Beach Bicycle Tour was held May 21 had 1566 riders. With three starting points, Salem, Portland, and Amity a large number of hams was needed to provide communication coverage throughout the course. The rides merged at Amity and then continued to Lincoln City for the beach party to end the day's event. The 12th Annual Oregon Trails Bicycle Tour was held on September 24, 25 and 26th. The route meandered through the scenic Willamette Valley, passed over numerous covered bridges from Dallas to Brownsville, to Stayton and finally back to Dallas on day three.

Meeting : from Page 1 NOVEMBER CLUB MEETING

David Aucsmith, N7VKC, will be speaking at the November club meeting. David works for Intel and is an avid mountain climber. He will give a talk and slide presentation on his experiences in combining both of his hobbies of mountain climbing and Amateur Radio. He has a mini-Packet system he will also be demonstrating.

From the SYSOP @ KB7OGD

Hello all, things are running along smoothly here at the BBS. I've been very busy over the last month so I have not had a lot of time for testing new options for the system.

I have noticed that there has been very little activity through the BBS from club members. The traffic relating to OTVARC in general has been very minimal. Please feel free to use the system as often as you like.

I have mentioned that I've been considering a Land Line (Telephone) user port. I would be willing to install a dial up (Telephone) user port if there is any interest. Please think about the possibility and I'll ask if there is any interest at the next meeting.
73 from Rick.. SYSOP @ KB7OGD.OR.USA.NOAM
Westside Network Switch.

ADVOCATE TAX CONSULTANTS
11080 SW ALLEN BLVD.
BEAVERTON, OR 97005
(503) 626-8325

ROBERT B. WHITE
LICENSED TAX CONSULTANT, ENROLLED AGENT

TAX RETURN PREPARATION, TAX PLANNING & ANALYSIS
AUDIT REPRESENTATION

WORLDWIDE DISTRIBUTION



HAM RADIO OUTLET

Serving You:

Earl Jack Ray Bill
KE7OA KG7LX KA7WVS N7RYW

11705 SW Pacific Hwy. 99W (503) 598-0555
Portland, OR 97223 (800) 854-6046
Earl Reinhoehl, KE7OA, Manager

ANAHEIM, CA • ATLANTA, GA • DENVER, CO • OAKLAND, CA
PHOENIX, AZ • PORTLAND, OR • SALEM, NH • SAN DIEGO, CA
SUNNYVALE, CA • VAN NUYS, CA • WOODBRIDGE, VA

Telephone Systems
& Supply, Inc.

180 S. Main (Suite C)
Banks, OR 97106

BANKS
PARCEL
SERVICE

Ship Daily UPS

Ray and Dale

Telephone Systems
(503) 324-3737
(800) 723-3737

BPS Telephone
(503) 324-2910
FAX (503) 324-4833

PREZ : continued from Page 1

Now you must understand, that this whole thing had taken over 3 or 4 months from the time I originally asked about the scholarship program until we voted on the application. It was not done nor was it meant to be done in a clandestine way in order to hide our actions or to prevent anyone from being involved in the process. I spoke openly about our need to make the award; spoke to long-time members of the club concerning the scholarship; solicited input from the general membership of the club concerning the program. The board meetings are open to any interested individuals and its location and time is published in the club news letter. As you will read in the minutes from the September Board Meeting, I screwed up BIG_TIME_!!!! I can only promise that I will make a major attempt to never do it again. But I am, after all, only human.

I apologize to those people who, totally unknown to me, were serving on the standing though inactive scholarship committee. I also apologize to Pat Griffiths for any slight she feels was directed at her and the good job she and the rest of the committee have performed in the past. That was not my intention. To the rest of the general membership, I apologize for being short sighted and overstepping my bounds in any way I have in this matter. As I have said, I will do my best, in the remaining 2 months, not to do it again.

I feel very strongly about the importance of leadership support in a volunteer organization. This shouldn't come as any news to people who know me. I have made many friends in the club and the club is important to me. The club is only as strong as its membership. But a club without strong leadership pales in importance in our busy daily lives. Strong leadership only exists where there is faith and confidence placed in the leadership by its members. It is apparent that I have violated this trust to some of the members and therefore lost credibility. That challenges the fabric of the organization and that is something I regret. Please accept my apology. And please don't judge the rest of the board members by my actions.

As my term of office nears its end, I only ask that you, the members of the club, continue to support the club and continue to make it grow and flourish. The club is comprised of many great members, with talent and knowledge that rival any club of its type. Help the club realize its potential. Help the club become a synergism. Synergy is the function of all parts working together to make an entity that is stronger than the sum of its parts. This club can do it. Get involved and make it happen.

VOX: A device used by speech therapists and ear, eye, nose and throat specialists to elicit the sound, "ah, ah, ah" from a patient. Once trained, a ham operator is quite at home with a similar device connected to a transmitter which turns on when the operator sneezes, coughs or says "ah." The transmitter also responds to noise, particularly when used in conjunction with audio compression. (see, also "Speech Processor")

SPEECH PROCESSOR: An adjustable audio device, typically with two settings; "MASH," which compresses the audio peaks thereby raising the background noise allowing you to contact to hear your baby, your dog, the dishwasher and passing trucks better than your voice and "SPLATTER," which spreads your signal over a 10 kh or wider bandwidth and gains the admiration of your fellow lids.

A new conversion table

The August issue of *F&M Today*, the alumni magazine of Franklin & Marshall College, carried a compilation billed as "a new conversion table for scientific units, indicating a series of precise numerical relationships. Some of these may previously have been overlooked." The table is the work of Solomon Golomb of the University of Southern California. A few of the relationships:

- 10^{12} microphones = 1 megaphone.
- 10^{-12} boulevards = 1 pico boulevard (a thoroughfare in Los Angeles).
- 10^{21} picolos = 1 gigolo.
- 10 millipedes = 1 centipede.
- 10 monologues = 5 dialogues.
- 10^6 bicycles = 2 megacycles.

F&M Today invites readers to "send in their own conversions," which seems foolhardy at best.

News From All Over

ART-QUAKE '94

1994 Art-Quake is in the record books. Once again, the local ham community was asked to supply "professional" communications support for the event. According to Wes Allen, co-ordinator for the event, there were 35+ hams who worked 3.5 days in 4 hour shifts to lend support to the event. Hams handle all types of jobs. Primarily is the job of locating lost children and parents but the hams also help "man" positions in support of the "regular" volunteers. These duties include locating lost keys, watching booths while the people take short breaks, taste testing the coffee and refreshment supplies (that is one of the tasks I enjoy) and traffic control.

Though not "officially" an OTVARC event, (it is actually a TERAC event), OTVARC members make a large showing of support each year.

The board of Art Quake '94 was again very pleased with the job that was done by the hams and look forward to continuing support in the years to come. If you would like to know more about working Art Quake, contact Wes Allen - K7WWG on the 146.90 or the 440.350 repeaters.

Moving up:

John Larson - N0LRH, has been promoted to the position of Manager of the Raleigh Hills Radio Shack Store. John has been working at the Cedar Hills Blvd and Hillsboro Radio Shack stores since leaving Hillsboro Helicopter. John has helped supply radio and antenna equipment to OTVARC for Field Day the last 2 years though has not had the time to actually work the even either year. Thanks for the support John. Drop in and saw howdy to John when you are in the Raleigh hills area. I am sure he would appreciate the visit.

You win.....

Last month I came up with a little contest for the club members. I asked that anyone who came up to me with the "Mystery Message" for the month would receive a little something. Last month's message was "Help promote education of new hams" and the winner was Will Sheffield, N7THL. Congratulations. Will won 50 customized "Eye Ball" QSL cards for correctly finding the clues to my message. For those of you who didn't figure it out, look at the cartoons. "Plant the seed of Knowledge", "Water it with good examples"....etc. As far as I am concerned, this is something that takes little more than time but the rewards are many times more meaningful than the investment. Give it a try. See if you don't agree.

Don't forget your Badges...

In last month's issue of the *Oscillator*, I suggested that you wear your club badges and if you did, you might realize some type of reward. Well, There was quite a turn out of people with badges to the September meeting. At the break, these people were given slips of paper to be used for a drawing. The winner was presented with \$10 in cash. Not bad for just wearing his name badge....

OTVARC

TRAVELERS CAMPOUT

MT. HOOD RV PARK

WELCHS, OR

October 14-15 1994

DIRECTIONS

East of Portland on Hwy 26. Near Welchs, turn at milepost #38½.

AMENITIES

Full hook-ups, heated indoor pool and spa. Horeshoes, LP gas, fishing, game room and showers.

RESERVATIONS

Contact Darwin (K7PSD) or Verna Mae Durr, wagonmasters, at 646-5910 for reservations and gate pass. By Oct. 12--PLEASE!

Minutes of Board Meeting 9/7/94

1. Minutes of Board Meeting on August 3, 1994 approved.
2. The meeting was attended by Lynn Hurd, Al Berg, Bill Merwin, Wes Allen, Betty Mickley, Chuck Mickley, Stan Griffiths, Bob Cowan, Bud Butterfield and Bradley Beach.

Old Business:

3. Bob Cowan has volunteered to replace Rick Rasch on the Board. His candidacy will be voted on by the membership at the September regular meeting, September 14, 1994.
4. The modified scholarship form has been prepared by Betty Mickley.
5. Stan Griffiths appeared at the board meeting to remind the board that Board Meeting minutes have not been appearing in the club newsletter as recommended by the Ad Hoc Committee on the conduct of club business in 1992. The Board apologized for this oversight and will publish the Board Meeting Minutes henceforth.

Stan also suggested that the Scholarship Committee and its established procedures had been ignored in awarding the scholarship last month. Every board member present agreed that the Scholarship Committee members resigned at least one year ago and no new members had volunteered to be on the committee; the Scholarship Committee no longer existed. As a result, the board appointed itself as the Scholarship Committee, revised the application requirements, accepted and reviewed the application of Jennifer Coan, and awarded Jennifer the scholarship.

Stan also noted that Pat Griffiths, KA7UFG, was a fully paid member of the club, but did not receive her own copy of the club newsletter. As a result she was unable to vote when a recent newsletter contained a ballot to vote for a vacated office. The Board apologized for this oversight and will change the newsletter mailing procedure to include a separate copy for all family members if required.

Stan submitted a memo the Board detailing his concerns. This letter is available for any member who wishes to review it.

6. Status of 501 (c) 3: Wes Allen reported that he talked to Colin Lamb, K7FM, who is an attorney and has volunteered to help prepare the application. Brad gave Wes everything he had collected on the application.
7. Copier: Al reported on a demo of a reconditioned Canon 3825 copier at Automated Office Systems. The 3825 is much faster and prints both sides at once and would be much better for newsletter production. Al was not impressed with the 3825 (it jammed twice on the demo run) Al recommended that we stay with the machine we have since he just replaced the drum. Al also recommended that we not purchase a service contract. The board concurred.
8. Al reported that the Boy Scouts have requested the use of the club trailer for the weekend of October 15, 1994, for the National Boy Scout On The Air Jamboree. A group of scouts from Hillsboro would camp out at Rhododendron. The board concurred in this use of the trailer. Al will get names for Bill to contact.
9. Bill requested volunteers to go to local schools to present ham radio to the kids.
10. Wes reported that ArtQuake had 35 ham volunteers this year.
11. Brad reported on the Portland Ham Fair to be put on by Hoodview ARC on September 16, 1995. Brad suggested that Hoodview could use some help from the SeaPac volunteers in OTVARC.

Meeting adjourned at 9:35 pm.

OTVARC Club Contacts

OTVARC Executive Board

President	Bill Merwin	N7VZF	644-1974
Vice President	Betty Mickley	N7REX	642-1284
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Tim Taylor	N7UCA	292-5430
Trustee	Al Berg	WB7SIC	640-5456
Trustee	OPEN		
Trustee	Camber Bybee	KB7RGX	645-6840
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-5430
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare			
Member Badges	Terry Sparks	AA7ZO	628-0372
Newsletter Editor			
Newsletter Layout			
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers			
Project Night	OPEN		
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Exec. Board	N7VZF	644-1974
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Bill Merwin	N7VZF	644-1974
Technical	OPEN		
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training(Code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(Upgrade)	OPEN		
VE Testing			
VE Test Schedule	P.A.R.I.S.	N7VIC	629-8933
VHF/UHF	Bill Roth	N7RYW	297-7605

AZDEN RADIOS

2-Meter and 6-Meter mobiles in stock

Call: Jack - N7CXK in Wilsonville

Local Phone - Information (503)682-7898
Orders Only Please 1-800-835-4895

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full Page	8" X 10"	\$200 for 6 mo.
Half Page	8" X 5"	\$125 for 6 mo.
Qtr Page	4" X 5"	\$75 for 6 mo.
Bus. Card	2" X 3"	\$35 for 6 mo.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership OTVARC is open to anyone who breathes. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for prorated dues.

How To Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.

QSL CARDS

1 DAY SERVICE

100-\$10.00

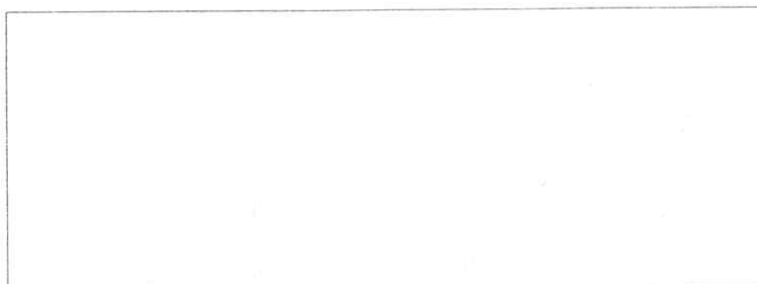
250-\$20.00

Many styles to choose from. Try our new 8X11 giant size 10 for \$5.00 or our business size eyeball QSO card 200 for \$9.95 (7 days needed). Come in and check out the styles or phone and we will mail them within 24 hours (add \$1.00).

Amateur Equipment Shortwave Scanners	 234 S.E. Grand Ave., Portland, OR 97214 (503) 233-4904	Antennas Accessories Books Parts
---	--	---

Oregon Tualatin Valley Amateur Radio Club
Post Office Box 5132
Aloha, Oregon 97006-0132

Address Correction Requested



FIRST CLASS MAIL